Scenario Worksheet

Practice and Scenario Description:

| Practice and Scenario Descripti | OII. | – |
|---|--|--|
| Information Type | Data | |
| Region | Appalachian | |
| State | North Carolina | |
| Discipline Group | Agricultural Engineering | |
| Practice Code/Name | 557 - Row Arrangement | |
| Scenario ID | 1 | |
| Scenario Name | Establishing Row Direction, Grade, 8 | & Length. |
| Scenario Description Before Practice Situation | planned results to provide drainage Direction and length of rows will vai used on dryland areas to fully and e This practice applies to all crop land production practices which improve water quality to receiving water bod main or lateral drains; to facilitate o more fully utilize available rainfal; o or in conjunction with other conserv | lirection, grade and length by setting a baseline by ground survey, GPS, GIS, or other appropriate methods that will provide the , erosion control. Used as part of drainage system, control runoff, reduces soil erosion. Crop rows on planned grades and length or according to local situation. Planner will consider crop, exposure, aspect, flow of water, and use of additional practices. May ffectively utilize rainfall. This scenario addresses the resource concern of Soil Erosion / irrigation induced soil erosion / sheet 8 areas where there is a need for reducing soil erosion, improving irrigation efficiency, improving drainage and improving energy efficiency and minimize the application of chemicals and nutrients overlapping (Parallel System) while improving the dises. Row arrangement is applied as part of a surface drainage system for a field where the rows are planned to carry runoff to ptimum use of water in graded furrow irrigation systems; in dryland areas where it is necessary to control the grade of rows to on sloping land where control of the length, grade and direction of the rows can help reduce soil erosion, as a stand-alone practation practices |
| After Practice Situation | results. To remove irregularities on field will need to be smoothed or le address these concerns by using Lar | on, grade and lengtn by setting a baseline by ground survey, GFS, GTS, or other appropriate methods that will provide the plan land surface with special equipment, that may require a needed change of length, direction, or slope of crop rows and slope, to veled to correct irregularities and address drainage or Irrigation Issues, then other Conservation Practices should be used to ad Smoothing (466), Precision Land Leveling (462), Irrigation Land Leveling (464), Other associated practices that maybe used Basin (350), Terrace (600), Filter Strip (393), Irrigation Water Management (449), Grade Stabilization (410), Conservation Coverage (400), Grade Stabilization (400), Grade S |
| | | |
| Scenario Feature Measure | Area to Set Row Direction, Grade, & | Length |
| Scenario Unit | Acre | |
| Scenario Typical Size | 25 | |

Cost Summary:

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|------------------------------------|---------------|--------------------|--|--|--|--|
| Cost Category | Scenario Cost | Scenario Cost/Unit | | | | |
| Materials | \$0.00 | \$0.00 | | | | |
| Equipment/Installation | \$52.62 | \$2.10 | | | | |
| Labor | \$341.20 | \$13.65 | | | | |
| Mobilization | \$0.00 | \$0.00 | | | | |
| Acquisition of Technical Knowledge | \$0.00 | \$0.00 | | | | |
| Foregone Income | \$0.00 | \$0.00 | | | | |
| Total | \$393.82 | \$15.75 | | | | |

Cost Details:

| COSt Details. | | | | | | | | | |
|------------------------|--------------|----------------|--|------|-----------------|----------|----------|--|--|
| Cost Category | Component ID | Component Name | Component Description | Unit | Price (\$/unit) | Quantity | Cost | | |
| | | | Equipment and power unit costs. Labor not | | | | | | |
| Equipment/Installation | 939 | Truck, Pickup | included. | Hour | \$26.31 | 2 | \$52.62 | | |
| Labor | 231 | | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.67 | 8 | \$149.36 | | |
| Labor | 230 | | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | | \$23.98 | 8 | \$191.84 | | |

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